

AN ELECTRICAL MACHINE AND USE THEREOF

ABSTRACT OF THE DISCLOSURE

The invention relates to an electrical machine of the transversal-flux type. The machine comprises a stator and a movable element. The stator has a plurality of stator elements with magnetic flux conductors and an electric winding extending in a closed winding path through each magnetic flux conductor. The movable element comprises a number of permanent-magnet members and is movable in relation to the stator along a movement path. The winding path comprises a first current-carrying section extending along the movement path. Each magnetic flux conductor forms, together with one of the permanent-magnet members, a closed magnetic flux circuit around said current-carrying section. Each permanent-magnet member comprises a primary magnet with a magnetic direction across the movement path. Adjacently located permanent-magnet members are separated from each other by an intermediate member comprising at least one secondary magnet that has a magnetic direction essentially across the magnetic direction of the primary magnet.